

AMENDMENTS TO THE SPECIFICATION

ABSTRACT

An X-ray imaging module having a multilayer ionizing radiation sensitive element operative to convert spatially modulated impinging X-ray radiation to a spatially modulated charge distribution. The multilayer ionizing radiation sensitive element has a substrate, a conductive layer overlying the substrate, an ionizing radiation sensitive layer overlying the conductive layer which converts ionizing radiation impinging thereon to charge carriers, and a blocking layer exposed to ionizing radiation and optical radiation, overlying the ionizing radiation sensitive layer. The blocking layer generally limits the passage of charges, of at least one polarity, therethrough and blocks optical radiation, of at least one spectral band, from penetrating therethrough, while permitting passage therethrough of ionizing radiation.